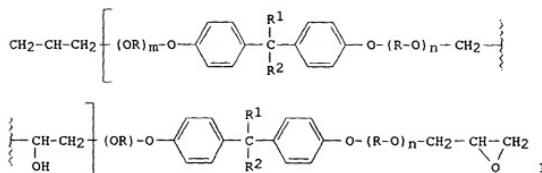


72

JP 62-295029

409

AN 1988:483592 CAPLUS  
 DN 109:83592  
 TI Sealed liquid crystal display device  
 IN Matsuyama, Shigeru  
 PA Hitachi, Ltd., Japan  
 SO Jpn. Kokai Tokkyo Koho, 3 pp.  
 CODEN: JKXXAF  
 DT Patent  
 LA Japanese  
 IC ICM G02F001-133  
 ICS G09F009-30  
 ICA C09J003-16  
 CC 74-12 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)  
 FAN.CNT 1  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 PI JP 62295029 A2 19871222 JP 1986-138052 19860616  
 GI



AB The title device is characterized by the use of a sealant from an epoxy resin contg. a novolak phenolic resin hardener and >10 wt.% flexible epoxy resin, fillers of Al2O3 and/or SiO2 (< 0.05 .mu.m in av. particle diam.) <26 vol.%, and an imidazole compd. curing accelerator 1 wt.% based on the epoxy resin. Thus, a novolak-type epoxy resin was mixed with a flexible epoxy resin [e.g. I (R, R1, R2 = alkyl or OH)]. The shock resistance and the moisture resistance of a liq.-crystal display device sealed with the resin were improved.

ST liq crystal device epoxy resin; silica filler epoxy resin sealant;

alumina

filler epoxy resin sealant; imidazole epoxy resin sealant display; novolak

epoxy resin sealant display

IT Epoxy resins, uses and miscellaneous

RL: USES (Uses)

(sealants from, for liq. crystal display devices)

IT Optical imaging devices

(liq.-crystal, epoxy resin sealant compns. for)

IT 23996-25-0

RL: USES (Uses)

(epoxy resin compn. contg., for sealing of liq. crystal display devices)

IT 115566-67-1

RL: USES (Uses)  
(epoxy resin compn. contg., for sealing of liq.-crystal display  
devices)

IT 1344-28-1, uses and miscellaneous 7631-86-9, Silica, uses and  
miscellaneous

RL: USES (Uses)  
(fillers, in epoxy resin sealant compns. for liq.-crystal display  
devices)

IT 11121-15-6, Adeka Resin EP 4000 25068-38-6, Epikote 1001

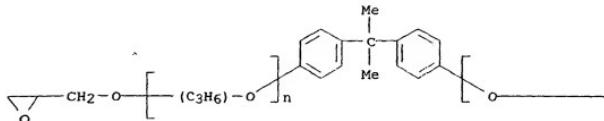
RL: USES (Uses)  
(sealant from, for liq.-crystal display devices)

RN 11121-15-6 REGISTRY  
 CN Poly(oxy(methyl-1,2-ethanediyl)),  
 .alpha.,.alpha.'-{(1-methyl ethylidene)di-  
 4,1-phenylene}bis[.omega.-(oxiranyl methoxy)-, homopolymer (9CI) (CA  
 INDEX  
 NAME)  
 OTHER NAMES:  
 CN Adeka EP 4000  
 CN Adeka Resin EP 4000  
 CN ADT 4000  
 CN EP 4000  
 CN Epsilon 717  
 CN Gurishieru BPP 350  
 CN Rikaresin BPO 20E  
 DR 54667-37-7, 60267-15-4, 63278-42-2, 39354-76-2  
 MF ((C<sub>3</sub>H<sub>6</sub>O)n (C<sub>3</sub>H<sub>6</sub>O)n C<sub>21</sub>H<sub>24</sub>O<sub>4</sub>)<sub>x</sub>  
 CI PMS, COM  
 PCT Epoxy resin, Polyether  
 LC STN Files: CA, CAPLUS, CHEMIST, IFICDB, IFIPAT, IFIUDB, USPATFULL

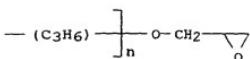
CM 1

CRN 55236-42-5  
 CMF (C<sub>3</sub>H<sub>6</sub>O)n (C<sub>3</sub>H<sub>6</sub>O)n C<sub>21</sub>H<sub>24</sub>O<sub>4</sub>  
 CCI IDS, PMS

PAGE 1-A



PAGE 1-B



93 REFERENCES IN FILE CA (1967 TO DATE)  
 23 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 93 REFERENCES IN FILE CAPLUS (1967 TO DATE)